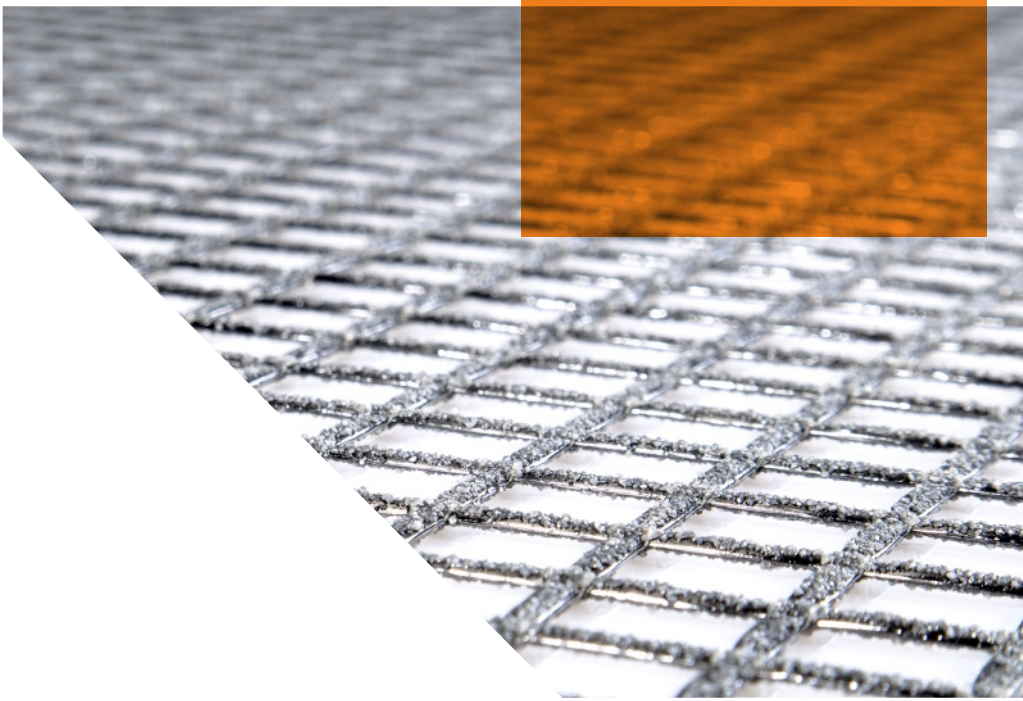
solidian



solidian Anticrack

SPECIALLY DESIGNED REINFORCEMENT FOR A SUPERIOR BONDING BEHAVIOR

build solid.

EN

solidian

Rusty buildings should be my future? No thanks!

build solid.

solidian Anticrack

is a further development of our reinforcement **solidian** GRID, which functions specifically as crack eliminating reinforcement. The textile, non-metallic carbon reinforcement can be laid close to the surface and thus has a particularly positive influence on crack width and formation in concrete elements.

solidian Anticrack is charged with specially designed grip which achieves an even better bonding behaviour with the concrete.

solidian Anticrack reinforcements are an economically interesting alternative to conventional solutions, like surface protection systems, for dealing with cracks in concrete. Our hi-tech reinforcements inside concrete are the building materials of the future.

product portfolio

- **solidian** Anticrack Q43-CCE-21
- **solidian** Anticrack Q47-CCE-38
- **solidian** Anticrack Q85-CCE-21

characteristics

- Thinner, more filigree concrete components
- Sophisticated, shaped concrete components
- Lightweight and easy to install
- more tensile strength than steel
- Economically and ecologically sustainable
- Enormous design freedom for architects
- More economical due to reduced consumption of materials
- less concrete less weight less ressources
- Corrosion free, chloride and media resistant
- Durable and long service life

dimensions

Standard dimensions:

- 6,0 m x 2,3 m

Individual dimensions:

- max. 8,0 m x 3,0 m possible on request

Individual shapes:

- possible on request

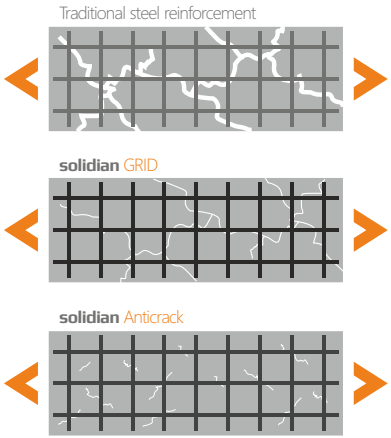
sustainability

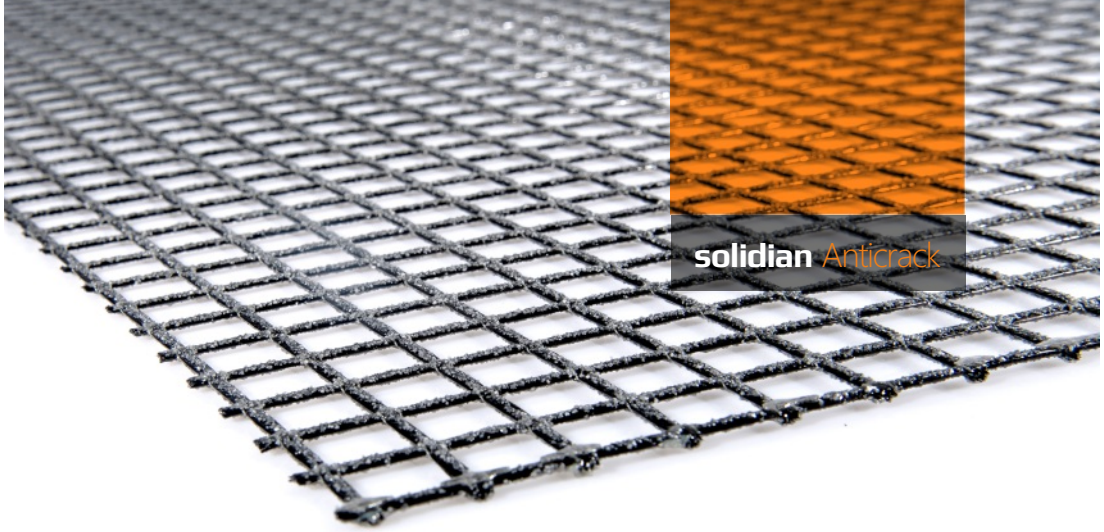
In concrete with non-metallic reinforcement, the usual steel reinforcement is replaced by carbon or glass fiber grid structures. These do not corrode, which is why the concrete cover can be lower, making the concrete components significantly lighter and thinner.

In this way, up to **50%** of resources (cement, sand, water) and up to **30%** of CO_2 emissions can be saved. This represents a great potential for better management of our resources and helps us build more climate neutral for upcoming generations.
Due to its properties, **solidian** Anticrack can be used particularly well in the maintenance and structural upgrading of existing buildings. This way, buildings can be preserved and their life cycle significantly extended. The use of reinforcement is also worthwhile in new buildings. Here is essential that the complete life cycle is considered and used as a basis for the calculation.

The use of non-metallic reinforcement is particularly useful when the reinforcement can show its advantages. In the case of repairs or the structural strengthening of concrete elements to protect the structure from further damage, the **solidian** Anticrack can score points.

Crack widths can be limited and the new concrete layer applied can be kept very thin. This saves weight and space, which can be extremely relevant, for example, with regard to the static load and clearance height in a parking garage. **solidian** Anticrack is also perfectly suitable for sealing.



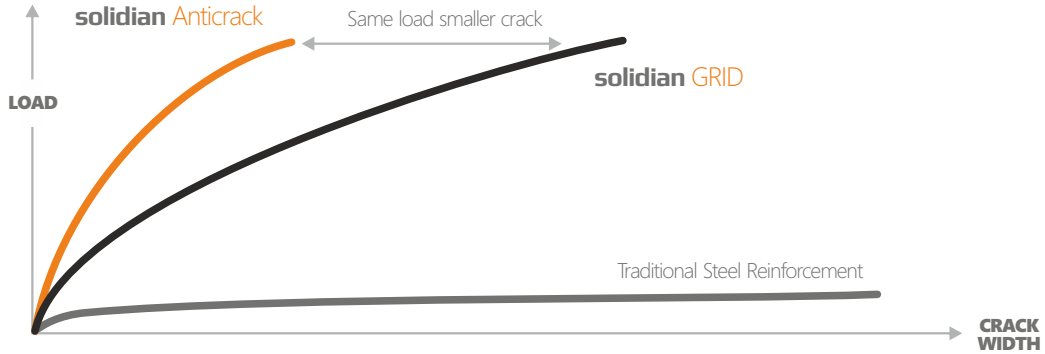


Specially designed for a superior bonding behavior

Textile carbon reinforcements require only a small concrete cover of a few millimeters. As a result, they can be laid close to the surface and are particularly effective in preventing crack widths. **solidian** Anticrack exploits this advantage to the maximum and also offers even higher safety against surface spalling. The load transfer is significantly improved, and the crack widths can be kept to a minimum so that no water can get inside.

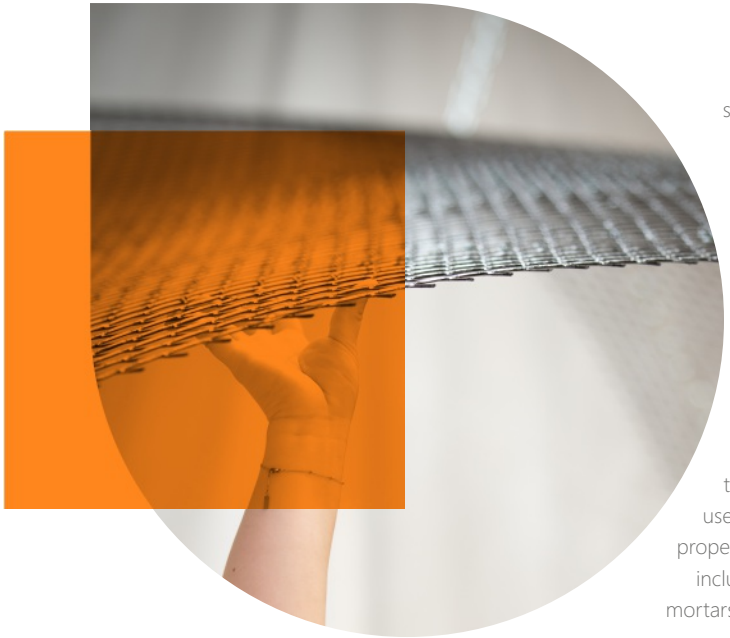
applications

- Bridge construction
- Tunnel & mining constructions
- Maritime applications
- Concrete slabs
- Precasted elements (e.g. Façade panels)
- Parking garages & Underground car parks
- Sealing layers (e.g. waterproof)
- Repair of concrete structures
- Structural strengthening



About **solidian**

Always one step ahead: with innovative products we can offer you perfect solutions for your needs



solidan has made a name for itself as a leading company that provides a wide range of solutions to improve construction structure.

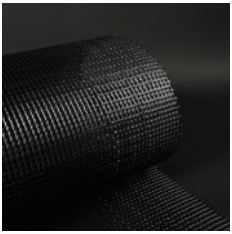
We made a commitment to clients to provide them with customer service, technical support and being the leader in providing global innovative fiber material solutions. We use advanced technologies to produce special solutions according to your needs. Our functional grids are used to optimize product and processing properties in a wide variety of applications – including concretes, UHPC, cement-based mortars, adhesives, and dry-mix compounds.

discover our industry-leading reinforcements & systems

build solid.

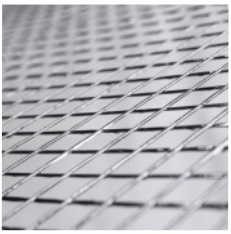
Other Products

check out our website for more products and innovative solutions



solidian eGRID

Specially developed flexible grids in combination with electro conductive coatings provide high tensile strength and outstanding electro conductive properties. **solidian** eGRID is now also available with different conductive surface treatments for special applications in which electrical conductivity is important.



solidian GRID

is textile reinforcements made from various fibers such as carbon, glass, basalt, or hybrid and therefore is ultra-lightweight. Compared to classic steel reinforcement, **solidian** reinforcements have up to 7 times higher tensile strength and do not corrode.

solidian CONNECTOR

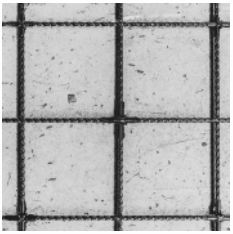
Non-corrosive Carbon, Basalt, or AR-Glass connector with Single or Double Open End suitable for construction reinforcement in masonry, arches and vaults. Perfect for reinforcement of buildings in earthquake-affected areas.

solidian Briksy

High-tech, non-Corrosive, AR glass or Carbon fiber reinforcement brick mesh on a roll for efficient crack control specially designed for any wall width.

solidian REBAR

The rod-shaped reinforcement **solidian** REBAR are combining high-strength fibers with extreme resistant resins. **solidian** REBAR are the right choice where ever high loads occur and components are permanently exposed to aggressive environmental influences.



solidian REMAT

The **solidian** REMAT transfer all the outstanding properties of our bar-shaped reinforcements, the **solidian** REBAR, to the mesh format. The result is robust and walkable mats for more efficient handling on the construction site.

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